

## Light Fantastic III (Project 02-16) (11/03)

Pelton & Crane's Light Fantastic III Dental Light is an updated design of the Light Fantastic II Dental Light for illumination during dental procedures. The dental light is said to create a color-corrected, 3" by 8" horizontal light pattern that has three intensity adjustments: Low (16000 lux), Medium (21000 lux), and High (26000 lux) at a 27-inch focal distance. Color temperature is said to be 5000 °K at the maximum illumination. The Light Fantastic III is advertised as having a computer-designed light reflector that produces a feather-edged light pattern that is designed to reduce eye fatigue. The Light Fantastic III also features a no-touch sensor that is said to allow hands-free operation of the light's on/off function by waving the hand. In addition, the light has an autoclavable handle that is easily detached from the light head. The Light Fantastic III is available in multiple delivery options (chair, ceiling, ceiling track, cabinet, and wall mount). The nine-pound light head has power requirements of 117 VAC/60 Hz and requires a 300-watt transformer for operation.



### Manufacturer:

Pelton & Crane  
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(704) 588-2126  
(704) 587-7204 FAX  
[www.pelton.net](http://www.pelton.net)

### Suggested Retail Price:

\$2050.00 Light Fantastic III (Item #044792GY)  
- \$295.00 300-watt transformer (Item #040430)

### Government Price:

\$1185.00 Light Fantastic III (Item #044792GY)  
- \$162.00 300-watt transformer (Item #040430)

### ADVANTAGES:

- + Provides excellent illumination for dental procedures.
- + Simple to use and operate.
- + Hands-free activation.
- + Autoclavable detachable handle.
- + Meets all electrical safety requirements.
- + Meets International Standard 9680 requirements for illumination-pattern consistency, radiant-heat production, and color-coordinated temperature.
- + Bulb is easy to remove and replace.
- + One-year warranty (except for the bulb).
- + Well organized and complete operation manual .

### DISADVANTAGES:

- Slightly more expensive than other dental lights in federal dental service use.
- Does not meet ISO Specification 9680 requirements for shadow pattern.

### SUMMARY AND CONCLUSIONS:

The Light Fantastic III is designed to provide a light source for the illumination required during dental procedures. The light met electrical safety requirements as well as most international standards for illumination-pattern consistency, radiant-heat production, and color-coordinated temperature. Clinical evaluators appreciated the light's area of illumination and intensity. Clinical users especially liked the light's hands-free control feature. The majority of the evaluators rated the Light Fantastic III "above average" and recommended its purchase for general clinical use. The cost of the light is slightly more expensive than lights currently in the federal service inventory. The **Light Fantastic III** is rated **Acceptable** for use by the federal dental services.